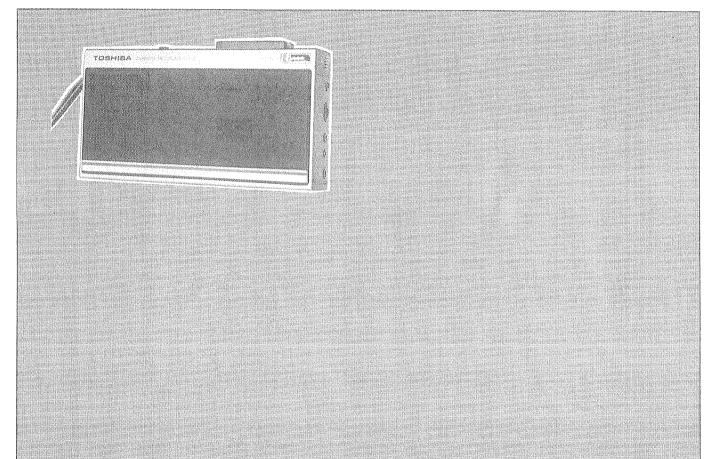
CASSETTE



SPECIFICATIONS

Track system:

Recording system:

Erasure system:

Recommended tapes:

Tape speed:

Frequency response:

Speaker:

Input terminal:

Monaural

AC bias

Magnet erasure

C30 - C120 cassette tapes

4.8 cm/sec.

150 Hz to 8 kHz

50 mm dynamic speaker

External microphone terminal

[MIC] 3.5 mm

Impedance: 400 ohm to 2.2k ohm

Input level: 0.5 mV

Output terminal:

Remote terminal:

Maximum output power:

Dimensions (W x H x D):

Power supply:

Weight:

Earphone terminal 3.5 mm Remote terminal 2.5 mm

400 mW

DC 6V (SUM-3 "AA" x 4)

External power source supplied

to the [DC IN 6V] jack (5.0mm dia, centre contact

positive)

163 x 88 x 35 mm

420 g (including batteries)

Specifications are subject to change without notice due to improvements,

TA, TG, AY, YY

1. BLOCK DIAGRAM

U % B If the the

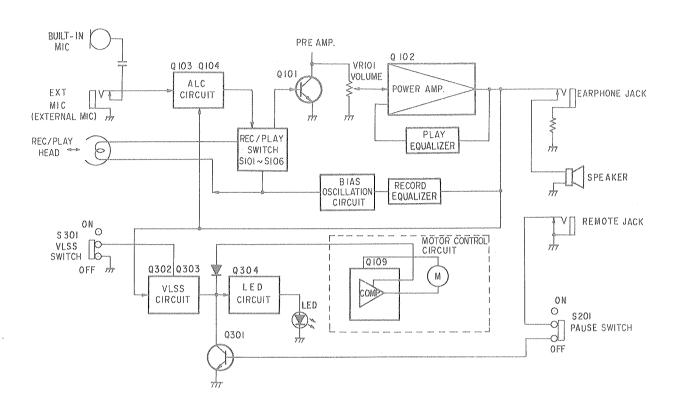


Figure 1.

Name Label TA, TC, AY, YY



2. OPERATING CONTROLS

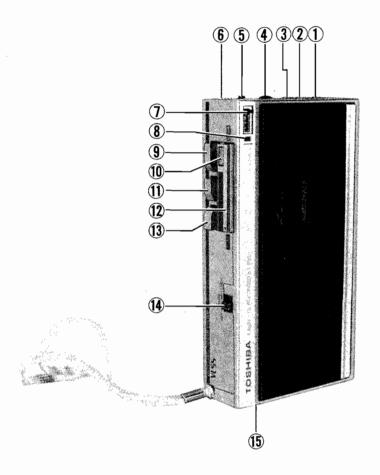


Figure 2.

Control Features

- ① [EAR] Earphone Jack ② [REMOTE] Jack ③ [MIC] Microphone Jack

- (4) [VLSS-MIC SENS/VOLUME] Control (5) [VLSS ON/OFF] Switch
- 6 Built-in Microphone
- 7 Tape Counter and Reset Button
- 8 [BATT/VLSS] Indicator
- [
 STOP/EJECT] Button

- 10 [● REC] Record Button
- (1) [>> REVIEW] Rewind/Review Button
- (1) [◀PLAY] Button
- (13) [◀CUE] Fast-Forward/Cue Button
- [PAUSE] Switch
- (15) [DC IN 6V] Jack

3. DISASSEMBLY INSTRUCTIONS

■ FRONT CABINET REMOVAL

- 1. Remove the battery cover.
- 2. Remove two screws (A) and one screw (B) securing the cabinet back and 2 screws (C) inside the battery box.
- Remove the lead wire of the speaker to detach the cabinet front.

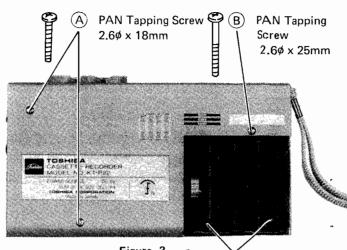


Figure 3.

■ CABINET BACK REMOVAL

- 1. Remove the cabinet front.
- 2. Remove two screws \bigcirc and two soldering points \bigcirc on the motor control board.
- 3. Remove the pause switch and motor control P.C. board.
- 4. Then detach the cabinet back.

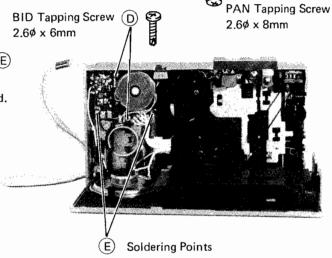
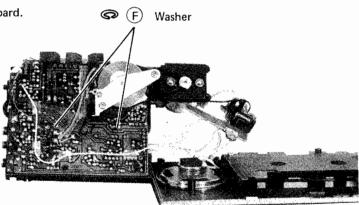


Figure 4.

■ MAIN P.C. BOARD CHECK

- 1. Remove the mechanism assembly from the cabinet back.
- 2. Remove two washers (F) securing the main P.C. board and mechanism assembly to reveal the main P.C. board.



■ POWER CONSUMPTION

While recording approx. 120 \sim 140mA (without earphone).

Figure 5.

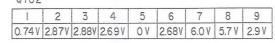
■ TORQUE

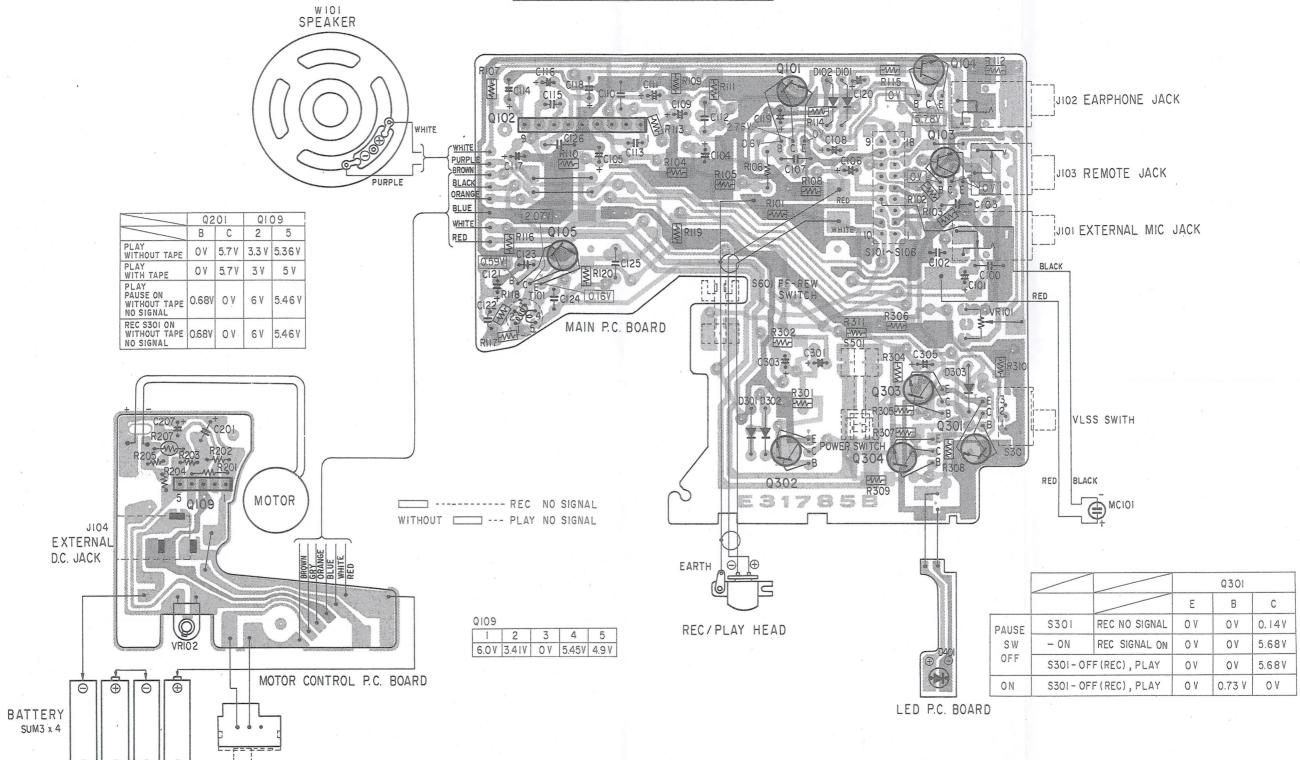
PLAY $33 \sim 63g \cdot cm$

FF 40g.cm or more

REW 60g.cm or more

4. ELECTRICAL PARTS LOCATIONS





		Q302			0303			Q304			0109	MOTOR
		Ε	В	C	Ε	В	C	E	В	С	5	MOTOR
S301-0N	REC NO SIGNAL	0.1	OV	1.231	0 7	0.667	0.141	OV	0.14 V	6 V	0.75	OFF
	REC SIGNAL ON	OV	0.54	0.071	OV	0.057	5.68 V	1.847	2.521	1.971	4.9 V	ON
S301-0FF	REC PLAY	OV	0.491	OV	0 V	OV	5.681	1.841	2.52V	1.971	4.91	ON

Figure 6.

SZOI PAUSE SWITCH

5. SCHEMATIC DIAGRAM

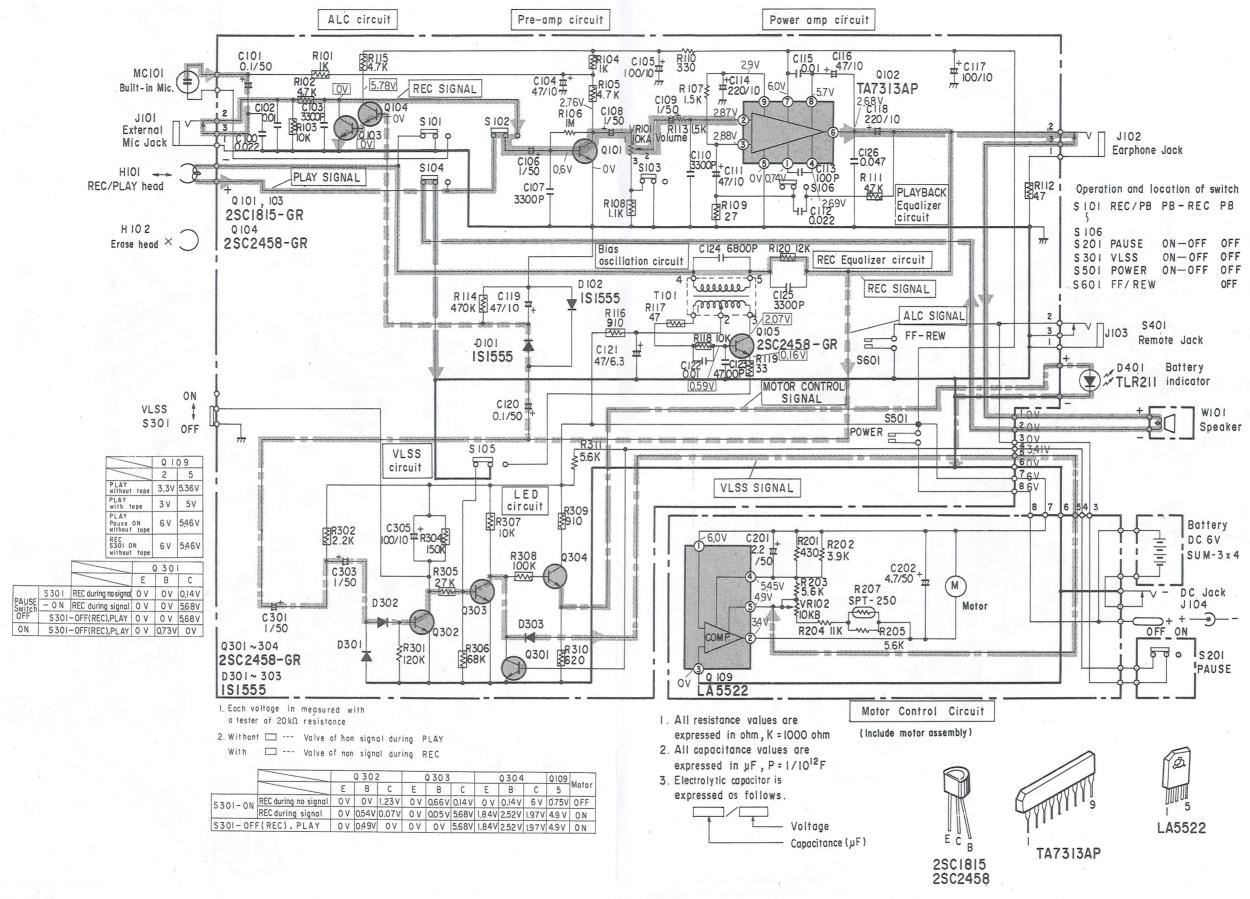
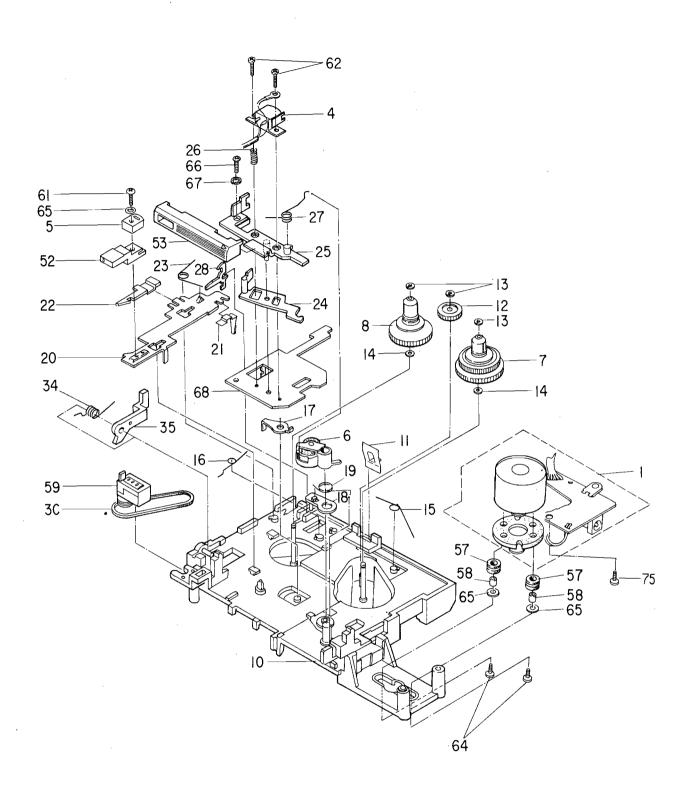


Figure 7.

6-1. MECHANISM EXPLODED VIEW(UPPER)

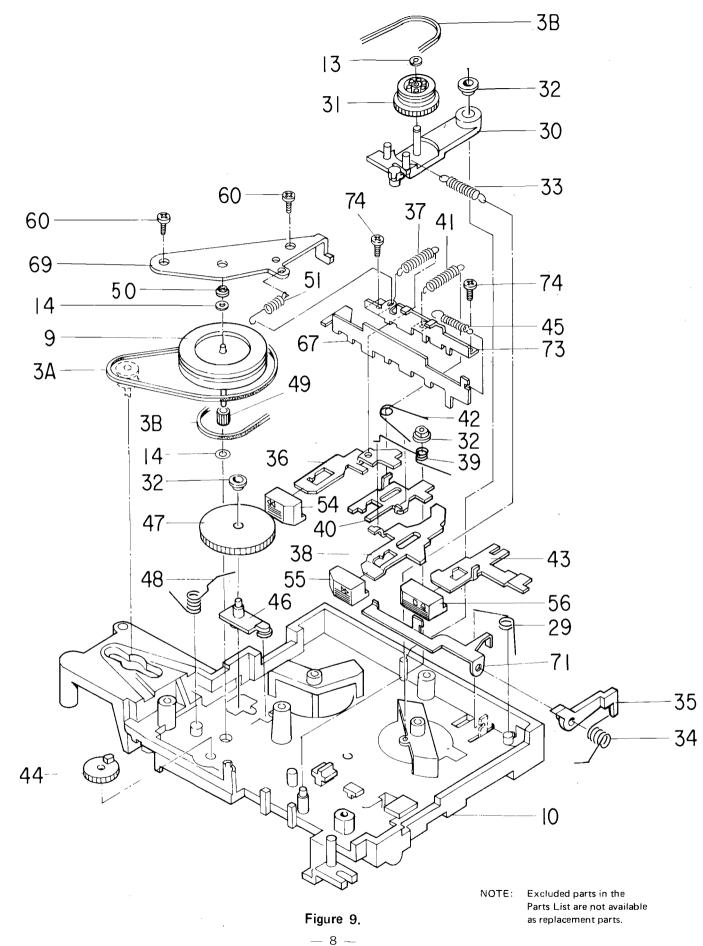


NOTE: Excluded parts in the

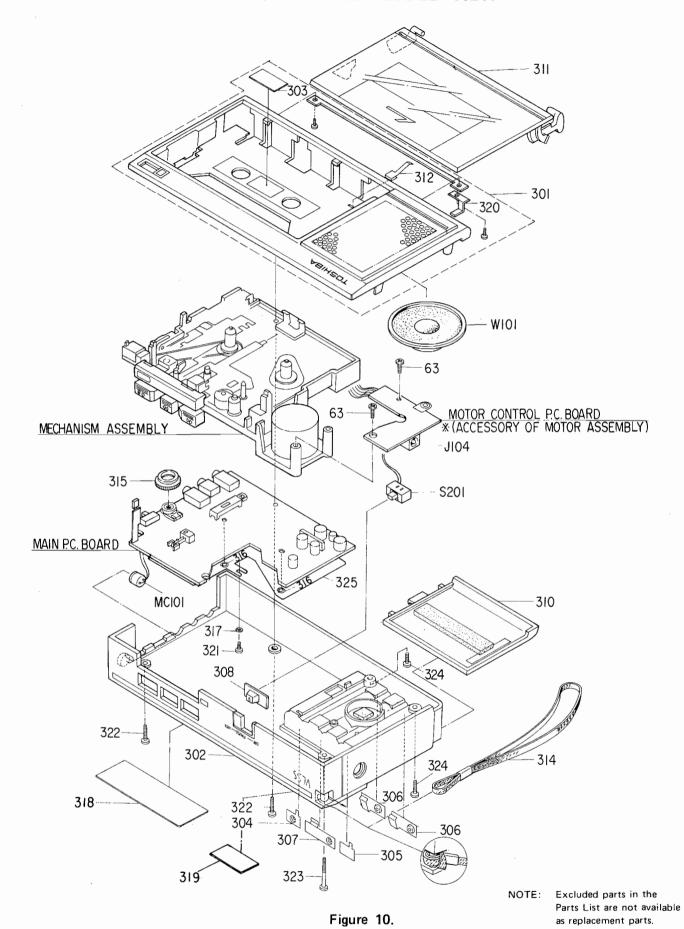
Figure 8. **-** 7 **-**

Parts List are not available as replacement parts.

6-2. MECHANISM EXPLODED VIEW (LOWER)



7. CABINET EXPLODED VIEW



8. PARTS LIST

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description		
MECHANISM PARTS			50	25721256	Holder, Capstan		
	IVIECHA	ANISW FARTS	51	25776595	. •		
1	25791625	Motor Ass'y	52	25784065			
3A	25755579		53	25784067	The state of the s		
3B	25755578	, · · · · · · · · · · · · · · · · · · ·	54	25784071			
3C	25755580	, ,	55	25784073	•		
4	22217430	1	56		Button, Stop		
5	22218264	1	57	25761496			
6 .	25717572	·	58	25726689			
7		Reel Plate Ass'y, Right	59		Tape Counter		
8	25712437		60		Special Screw		
9	25717571		61		Screw, 2¢ x 12mm, BID		
10	25791597		62		Screw, 20 x 6mm, PAN		
11	25779339	'	63	22707461			
12	25756370		65	22703318	·		
13	25766050		74		Screw, 20 x 5mm, BID, Tapping		
14 15	25766042		75	22707317	Screw, 2.6¢ x 5mm, BID, Tapping		
15 16	25778120	'		CABII	NET PARTS		
17	25778111 25784062		301	25881937	Cabinet Ass'y, Front		
18	25784063	' '	302	25881830			
19	25778112		303	25824436			
20	25784064		304	25839310			
21	25779340		305	25839311	_		
22		Prevention Board	306	25839312	_		
23		Spring, REC Lever	307	25839313	_		
24	25784066		308	25886002	_		
25	25781268		310	25882218	,		
26	25777243		311	25881938			
27	25778114	1 ' -	312	l	Spring, Cassette Cover		
28	25784068	I	314	22993054			
29	25778115		315	25886001			
30	25713573		316	25766050			
31	25758158		317	22703318	1		
32	25761497		318		Name Label		
33	25776614	'	319		Label, Stacker		
34	25778116	' -	321		Screw, 2¢ x 2mm, Special		
35	25784069	, ,	322		Screw, 2.60 x 18mm, PAN,		
36	25784070				Tapping		
37	25776592		323	22707985	Screw, 2.6ø x 25mm, PAN,		
38	25784072	_ · _			Tapping		
39	25778117	l	324	22707986	Screw, 2.69 x 8mm, PAN,		
40	25784074	1			Tapping		
41	25776593	Spring, PLAY Lever		-			
42	25778118	Spring, REW		- A NOIOTOD	a los AND DIODE		
43	25784075	Lever, Stop		_	S, ICS AND DIODE		
44	25756367	· · · · · · · · · · · · · · · · · · ·	Q101		Transistor, 2SC1815-GR		
45	25776594		Q102		IC, TA7313AP		
46	25737047		Q103		Transistor, 2SC1815-GR		
47	25756368		Q104, 105		Transistor, 2SC2458-GR		
48	25778119		Q109	ſ	IC, LA5522		
49	25756369	Gear, Flywheel	Q301, 302, 303, 304	A6332440	Transistor, 2SC2458-GR		
		1	303, 304				

- 9 -

KT-P22

de, 1S1555V de, 1S1555V de, LED, TLR-211, RED L PARTS Oscillator ch, Slide, PLAY/REC ch, Slide, PAUSE, VLSS ch, Leaf, Power ch, Leaf, FF, REW ch, S.5ø, EXT MIC, Earphone c, 2.5ø, Remote c, EXT DC Power t-in Microphone aker, 5cm, 8 ohm Board d PC Board	noted. 2. PRC is sho ment of th substitutio	re Carbon fil rt for the pri e resistor in n fixed carbo to the follow	BL, 0.047mfd, 25V, M EL, 1mfd, 50V EL, 1mfd, 50V EL, 100mfd, 10V ESISTORS Im 1/8W, ±5%, unless otherwise Inted resistor circuit. If replace- PRC is required, please use the on film resistor of 1/8W, ±5%
de, LED, TLR-211, RED L PARTS Oscillator ch, Slide, PLAY/REC ch, Slide, PAUSE, VLSS ch, Leaf, Power ch, Leaf, FF, REW 3.5.9, EXT MIC, Earphone 4.2.5.9, Remote 5.4. EXT DC Power ch-in Microphone aker, 5cm, 8 ohm Board	1. Resistors a noted. 2. PRC is sho ment of th substitutio according to K=1000, M	22440441 22440257 RE re Carbon fill rt for the pri e resistor in n fixed carbo to the follow	EL, 1mfd, 50V EL, 100mfd, 10V ESISTORS im 1/8W, ±5%, unless otherwise inted resistor circuit. If replace-PRC is required, please use the
L PARTS Oscillator ch, Slide, PLAY/REC ch, Slide, PAUSE, VLSS ch, Leaf, Power ch, Leaf, FF, REW 3.5ø, EXT MIC, Earphone 5.2.5ø, Remote 6.EXT DC Power 1-in Microphone 2-isker, 5cm, 8 ohm 3-oard	1. Resistors a noted. 2. PRC is sho ment of th substitutio according to K=1000, N	RE re Carbon fil rt for the pri e resistor in n fixed carbo to the follow	EL, 100mfd, 10V ESISTORS Im 1/8W, ±5%, unless otherwise Inted resistor circuit. If replace- PRC is required, please use the
L PARTS Oscillator ch, Slide, PLAY/REC ch, Slide, PAUSE, VLSS ch, Leaf, Power ch, Leaf, FF, REW 3.5ø, EXT MIC, Earphone 5.2.5ø, Remote 6.EXT DC Power 1-in Microphone 2-isker, 5cm, 8 ohm 3-oard	1. Resistors a noted. 2. PRC is sho ment of th substitutio according to K=1000, I	RE re Carbon fil rt for the pri e resistor in n fixed carbo to the follow	ESISTORS im 1/8W, ±5%, unless otherwise inted resistor circuit. If replace- PRC is required, please use the
, Oscillator cch, Slide, PLAY/REC cch, Slide, PAUSE, VLSS cch, Leaf, Power cch, Leaf, FF, REW c, 3.5ø, EXT MIC, Earphone c, 2.5ø, Remote c, EXT DC Power ct-in Microphone aker, 5cm, 8 ohm Board	noted. 2. PRC is sho ment of th substitutio according t K=1000, I	re Carbon fil rt for the pri e resistor in n fixed carbo to the follow	m 1/8W, ±5%, unless otherwise inted resistor circuit. If replace-PRC is required, please use the
, Oscillator cch, Slide, PLAY/REC cch, Slide, PAUSE, VLSS cch, Leaf, Power cch, Leaf, FF, REW c, 3.5ø, EXT MIC, Earphone c, 2.5ø, Remote c, EXT DC Power ct-in Microphone aker, 5cm, 8 ohm Board	noted. 2. PRC is sho ment of th substitutio according t K=1000, I	re Carbon fil rt for the pri e resistor in n fixed carbo to the follow	im 1/8W, ±5%, unless otherwise inted resistor circuit. If replace-PRC is required, please use the
cch, Slide, PLAY/REC cch, Slide, PAUSE, VLSS cch, Leaf, Power cch, Leaf, FF, REW c, 3.5ø, EXT MIC, Earphone c, 2.5ø, Remote c, EXT DC Power t-in Microphone aker, 5cm, 8 ohm	noted. 2. PRC is sho ment of th substitutio according t K=1000, I	rt for the pri e resistor in n fixed carbo to the follow	inted resistor circuit. If replace- PRC is required, please use the
cch, Slide, PAUSE, VLSS cch, Leaf, Power cch, Leaf, FF, REW c, 3.5ø, EXT MIC, Earphone c, 2.5ø, Remote c, EXT DC Power ct-in Microphone aker, 5cm, 8 ohm down	2. PRC is sho ment of th substitutio according t K=1000, I	e resistor in n fixed carbo to the follow	PRC is required, please use the
cch, Slide, PAUSE, VLSS cch, Leaf, Power cch, Leaf, FF, REW c, 3.5ø, EXT MIC, Earphone c, 2.5ø, Remote c, EXT DC Power ct-in Microphone aker, 5cm, 8 ohm down	ment of th substitutio according t K=1000, I	e resistor in n fixed carbo to the follow	PRC is required, please use the
cch, Leaf, FF, REW c, 3.5ø, EXT MIC, Earphone c, 2.5ø, Remote c, EXT DC Power t-in Microphone aker, 5cm, 8 ohm	substitutio according t K=1000, I	n fixed carbo to the follow	• • •
s, 3.5ø, EXT MIC, Earphone s, 2.5ø, Remote s, EXT DC Power t-in Microphone aker, 5cm, 8 ohm Board	according t K=1000, I	to the follow	on film resistor of 1/8W. ±5%
s, 2.5ø, Remote s, EXT DC Power t-in Microphone aker, 5cm, 8 ohm Board	K=1000, I		
t, EXT DC Power t-in Microphone aker, 5cm, 8 ohm Board	l 		ing list.
t-in Microphone aker, 5cm, 8 ohm Board	l I R 101	M=1000000	
aker, 5cm, 8 ohm Board		22550181	
Board	R102	22540518	4.7K ohm, (PRC)
	R103	22550192	
d PC Board	R104	22550181	
	R105	22540518	4.7K ohm, (PRC)
able, 10K ohm, Volume	R106	22540450	1M, ohm
	R107	22540512	
TORS	R108	22550181	1K ohm, (PRC)
	R109	22550162	27 ohm, (PRC)
DC 50V unless other wise	R110	22550175	330 ohm, (PRC)
Do do v diness cane. Wise	R111	22540518	4.7K ohm, (PRC)
sk, EL=Electrolytic	R112	22550165	47 ohm, (PRC)
er, PS=Polystyrene	R113	22550415	1.5K ohm
	R114	22550213	470K ohm, (PRC)
0.022mfd, 25V, M	R115	22540518	4.7K ohm, (PRC)
0.1mfd, 50V 0.01mfd, 25V, M	R116	22550181	1K ohm, (PRC)
3300pF, K	R117	22550165	47 ohm, (PRC)
47mfd, 10V	R118 R119	22550192 22540396	10K ohm, (PRC) 33 ohm, (PRC)
100mfd, 10V	R120	22540523	
1mfd, 50V	R301	22540439	120K ohm
3300pF, K	R302	22550185	
1mfd, 50V	R304	22550165	150K ohm, G, (PRC)
3300pF, K	R305	22550197	27K ohm, (PRC)
47mfd, 10V	R306	22550202	68K ohm, (PRC)
0.022mfd, 25V, M	R307	22550192	10K ohm, (PRC)
100pF, K	R308	22550204	100K ohm, (PRC)
220mfd, 10V	R309	22550181	1K ohm, (PRC)
0.01mfd, 25V, M	R310	22550179	680 ohm, (PRC)
47mfd, 10V	R311	22550190	5.6K ohm
100mfd, 10V			
220mfd, 10V	l	ACC	CESSORIES
47mfd, 10V	AC01	22903637	Owner's Manual, TA
0.1mfd_50V	AC01	22903638	Owner's Manual, TC
J	AC01	22903639	Owner's Manual, AY
47mfd, 6.3V	AC01	22903640	Owner's Manual, YY
47mfd, 6.3V			
47mfd, 6.3V 0.01mfd, 25V, M			
47mfd, 6.3V 0.01mfd, 25V, M 4700pF, 25V, K			
į	0.01mfd, 25V, M 4700pF, 25V, K 6800pF, J	47mfd, 6.3V 0.01mfd, 25V, M 4700pF, 25V, K 6800pF, J	47mfd, 6.3V 0.01mfd, 25V, M 4700pF, 25V, K 6800pF, J

-- 11 --

TOSHIBA CORPORATION 2-1, GINZA 5-CHOME, CHUO-KU, TOKYO 104, JAPAN